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M. Yamamoto, M. Kurahashi, C.T. Chan, K.M. Ho and S. Naito, Theoretical study of nitrogen adsorption on Zr(0001) surface 387 (1997) 300

X-ray scattering, diffraction, and reflection

W.J. Huisman, J.F. Peters, S.A. de Vries, E. Vlieg, W.-S. Yang, T.E. Derry and J.F. van der Veen, Structure and morphology of the as-polished diamond(111)-1 × 1 surface 387 (1997) 342

X. Zhang, M. Ishikawa, H. Yaguchi and K. Onabe, Electronic structure of (111)-GaAsP/AlGaAs strained-layer quantum wells 387 (1997) 371

PHENOMENA

Catalysis

K. Wilson, J. Brake, A.F. Lee and R.M. Lambert, Growth morphology and electronic properties of ultrathin Al films on Pt(111) 387 (1997) 257

Chemisorption

E.T. Krastev, D.E. Kuhl and R.G. Tobin, Multiple mechanisms for adsorbate-induced resistivity: oxygen and formate on Cu(100) 387 (1997) L1051

K. Prabhakaran and T. Ogino, Selective bond-breaking and bond-making in oxynitride of Si and Ge: a case of chemical bond manipulation 387 (1997) L1068

M. Casarin and A. Vittadini, A theoretical study of the CO and NO chemisorption on $Cu_2O(111)$ 387 (1997) L1079

N.A. Booth, R. Davis, R. Toomes, D.P. Woodruff, C. Hirschmugl, K.M. Schindler, O. Schaff, V. Fernandez, A. Theobald, Ph. Hofmann, R. Lindsay, T. Gießel, P. Baumgärtel and A.M. Bradshaw, Structure determination of ammonia on Cu(110) – a low-symmetry adsorption site 387 (1997) 152

A.W. Robinson, P. Gardner, A.P.J. Stampfl, R. Martin and G. Nyberg, The adsorption of silicon on Cu(111) and the initial stages of oxidation of the silicon–copper interface 387 (1997) 243

M. Yamamoto, M. Kurahashi, C.T. Chan, K.M. Ho and S. Naito, Theoretical study of nitrogen adsorption on Zr(0001) surface 387 (1997) 300

H. Nakatsuji, Z.-M. Hu, H. Nakai and K. Ikeda, Activation of O_2 on Cu, Ag, and Au surfaces for the epoxidation of ethylene: dipped adcluster model study 387 (1997) 328

Conductivity

E.T. Krastev, D.E. Kuhl and R.G. Tobin, Multiple mechanisms for adsorbate-induced resistivity: oxygen and formate on Cu(100) 387 (1997) L1051

Corrosion

M. Müller and H. Oechsner, In situ STM and AES studies on the oxidation of Cr(110) 387 (1997) 269

Electron bombardment

R. Bennewitz, M. Reichling and E. Matthias, Force microscopy of cleaved and electron-irradiated $CaF_2(111)$ surfaces in ultra-high vacuum 387 (1997) 69

Electron–solid interactions

A. Jablonski and J. Zemek, Experimental and theoretical tests of elastic scattering effects in XPS 387 (1997) 288

Energy dissipation

R.N. Carter, M.J. Murphy and A. Hodgson, On the recombinative desorption of N_2 from Ag(111) 387 (1997) 102

Epitaxy

S.D. Ruebush, R.E. Couch, S. Thevuthasan, Z. Wang and C.S. Fadley, Epitaxial growth modes and interlayer relaxation of thin Cu films grown on Ru(0001) and oxygen-precovered Ru(0001) 387 (1997) L1041

Faceting

A. Pojani, F. Finocchi, J. Goniakowski and C. Noguera, A theoretical study of the stability and electronic structure of the polar {111} face of MgO 387 (1997) 354

Friction

H. Klein, D. Pailharey and Y. Mathey, Friction force studies on layered materials using an Atomic Force Microscope 387 (1997) 227

Growth

S.D. Ruebush, R.E. Couch, S. Thevuthasan, Z. Wang and C.S. Fadley, Epitaxial growth modes and interlayer relaxation of thin Cu films grown on Ru(0001) and oxygen-precovered Ru(0001) 387 (1997) L1041

M.Ø. Pedersen, I.A. Bönicke, E. Lægsgaard, I. Stensgaard, A. Ruban, J.K. Nørskov and F. Besenbacher, Growth of Co on Cu(111): subsurface growth of trilayer Co islands 387 (1997) 86

J. Merikoski, I. Vattulainen, J. Heinonen and T. Ala-Nissila, Effect of kinks and concerted diffusion mechanisms on mass transport and growth on stepped metal surfaces 387 (1997) 167

G. Chern, Incommensurate growth and interface stability in $MgO/SrTiO_3(001)$ 387 (1997) 183

R. Schliesing, G. Eichhorn, X. Jiang and H. Zacharias, The complex tensor components of the nonlinear susceptibility $\chi^{(2)}$ of C(100) and of the C/Si(100) interface 387 (1997) 279

Ion bombardment

M. Kappel, M. Steidl, J. Biener and J. Küppers, Surface topography of low energy He-ion-bombarded graphite by AFM: temperature effects 387 (1997) L1062

Nucleation

L. Constant, C. Speisser and F. Le Normand, HFCVD diamond growth on Cu(111). Evidence for carbon phase transformations by in situ AES and XPS 387 (1997) 28

Oxidation

K. Prabhakaran and T. Ogino, Selective bond-breaking and bond-making in oxynitride of Si and Ge: a case of chemical bond manipulation 387 (1997) L1068

X.-C. Guo and R.J. Madix, In situ STM imaging of ammonia oxydehydrogenation on Cu(110): the reactivity of preadsorbed and transient oxygen species 387 (1997) 1

A. Endou, A. Stirling, R. Yamauchi, E. Broclawik, M. Kubo, A. Miyamoto, K.G. Nakamura and M. Kitajima, Quantum chemical study on SiO desorption from a Si(111) surface 387 (1997) 59

L.K. Verheij, On the dissociative adsorption of O_2 on Ga-rich GaAs(100) at submonolayer coverages 387 (1997) 160

T. Do, S.J. Splinter, C. Chen and N.S. McIntyre, The oxidation kinetics of Mg and Al surfaces studied by AES and XPS 387 (1997) 192

A.W. Robinson, P. Gardner, A.P.J. Stampfl, R. Martin and G. Nyberg, The adsorption of silicon on Cu(111) and the initial stages of oxidation of the silicon–copper interface 387 (1997) 243

M. Müller and H. Oechsner, In situ STM and AES studies on the oxidation of Cr(110) 387 (1997) 269

Photoelectron diffraction

N.A. Booth, R. Davis, R. Toomes, D.P. Woodruff, C. Hirschmugl, K.M. Schindler, O. Schaff, V. Fernandez, A. Theobald, Ph. Hofmann, R. Lindsay, T. Gießel, P. Baumgärtel and A.M. Bradshaw, Structure determination of ammonia on Cu(110) – a low-symmetry adsorption site 387 (1997) 152

Photoelectron emission

A. Jablonski and J. Zemek, Experimental and theoretical tests of elastic scattering effects in XPS 387 (1997) 288

Physical adsorption

O. Henrion and W. Jaegermann, Surface redox reactions of cobaltocene adsorbed onto pyrolytic graphite (HOPG) 387 (1997) L1073

J. Galle, H.L. Vörtler and K.-P. Schneider, Monte Carlo simulation of hard sphere fluids in planar slits with molecularly rough surfaces 387 (1997) 78

M.L. Rossi, M. Torri and G.P. Brivio, Chaotic dynamics in the predesorption of CO molecules from the NaCl(100) surface 387 (1997) 112

Piezoelectric effect

X. Zhang, M. Ishikawa, H. Yaguchi and K. Onabe, Electronic structure of (111)-GaAsP/AlGaAs strained-layer quantum wells 387 (1997) 371

Radiation damage

R. Bennewitz, M. Reichling and E. Matthias, Force microscopy of cleaved and electron-irradiated CaF_2(111) surfaces in ultra-high vacuum 387 (1997) 69

Surface chemical reaction

C. Egawa, S. Katayama and S. Oki, Ethylene hydrogenation on fcc Fe thin films grown on the Rh(100) surface 387 (1997) L1035

T. Do, S.J. Splinter, C. Chen and N.S. McIntyre, The oxidation kinetics of Mg and Al surfaces studied by AES and XPS 387 (1997) 192

G. Zhuang, K. Wang and P.N. Ross, Jr., XPS characterization of the reactions of Li with tetrahydrofuran and propylene carbonate 387 (1997) 199

Surface diffusion

M.I. Larsson, M. Tringides, H. Frischat and J. Wollschläger, Thermal roughening of uncorrelated steps 387 (1997) 142

J. Merikoski, I. Vattulainen, J. Heinonen and T. Ala-Nissila, Effect of kinks and concerted diffusion mechanisms on mass transport and growth on stepped metal surfaces 387 (1997) 167

Surface electronic phenomena (work function, surface potential, surface states, etc.)

O. Henrion and W. Jaegermann, Surface redox reactions of cobaltocene adsorbed onto pyrolytic graphite (HOPG) 387 (1997) L1073

F.I. Dalidchik, M.V. Grishin, N.N. Kolchenko and S.A. Kovalevskii, Field-emission resonances in STM: intraresonator electron spectroscopy of adsorbates 387 (1997) 50

F. Theilmann, R. Matzdorf and A. Goldmann, Photoemission linewidth studies of d-like Tamm states at the Cu(100) and Cu(100)/Au alloy surfaces 387 (1997) 127

Surface energy

A. Pojani, F. Finocchi, J. Goniakowski and C. Noguera, A theoretical study of the stability and electronic structure of the polar {111} face of MgO 387 (1997) 354

Surface relaxation and reconstruction

M. Yamamoto, M. Kurahashi, C.T. Chan, K.M. Ho and S. Naito, Theoretical study of nitrogen adsorption on Zr(0001) surface 387 (1997) 300

A. Pojani, F. Finocchi, J. Goniakowski and C. Noguera, A theoretical study of the stability and electronic structure of the polar {111} face of MgO 387 (1997) 354

Surface segregation

J.G. Belk, C.F. McConville, J.L. Sudijono, T.S. Jones and B.A. Joyce, Surface alloying at InAs–GaAs interfaces grown on (001) surfaces by molecular beam epitaxy 387 (1997) 213

Surface structure, morphology, roughness, and topography

J. Galle, H.L. Vörtler and K.-P. Schneider, Monte Carlo simulation of hard sphere fluids in planar slits with molecularly rough surfaces 387 (1997) 78

M.Ø. Pedersen, I.A. Bönicke, E. Lægsgaard, I. Stensgaard, A. Ruban, J.K. Nørskov and F. Besenbacher, Growth of Co on Cu(111): subsurface growth of trilayer Co islands 387 (1997) 86

M.I. Larsson, M. Tringides, H. Frischat and J. Wollschläger, Thermal roughening of uncorrelated steps 387 (1997) 142

N.A. Booth, R. Davis, R. Toomes, D.P. Woodruff, C. Hirschmugl, K.M. Schindler, O. Schaff, V. Fernandez, A. Theobald, Ph. Hofmann, R. Lindsay, T. Gießel, P. Baumgärtel and A.M. Bradshaw, Structure determination of ammonia on Cu(110) – a low-symmetry adsorption site 387 (1997) 152

J.G. Belk, C.F. McConville, J.L. Sudijono, T.S. Jones and B.A. Joyce, Surface alloying at InAs–GaAs interfaces grown on (001) surfaces by molecular beam epitaxy 387 (1997) 213

D. Scarano, P. Galletto, C. Lamberti, R. De Franceschi and A. Zecchina, Morphology and CO adsorptive properties of CuCl polycrystalline films: a SEM and FTIR study 387 (1997) 236

W.J. Huisman, J.F. Peters, S.A. de Vries, E. Vlieg, W.-S. Yang, T.E. Derry and J.F. van der Veen, Structure and morphology of the as-polished diamond(111)-1 × 1 surface 387 (1997) 342

Thermal desorption

C. French and I. Harrison, Site preferences, energetics and orientation of CH_3Br on Pt(111): investigation by RAIRS, TPD and photofragment angular distributions 387 (1997) 11

R.N. Carter, M.J. Murphy and A. Hodgson, On the recombinative desorption of N_2 from Ag(111) 387 (1997) 102

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H. Klein, D. Pailharey and Y. Mathey, Friction force studies on layered materials using an Atomic Force Microscope 387 (1997) 227

Tunneling

F.I. Dalidchik, M.V. Grishin, N.N. Kolchenko and S.A. Kovalevskii, Field-emission resonances in STM: intraresonator electron spectroscopy of adsorbates 387 (1997) 50

Vibrations of adsorbed molecules

M. Casarin and A. Vittadini, A theoretical study of the CO and NO chemisorption on Cu_2O(111) 387 (1997) L1079

F.I. Dalidchik, M.V. Grishin, N.N. Kolchenko and S.A. Kovalevskii, Field-emission resonances in STM: intraresonator electron spectroscopy of adsorbates 387 (1997) 50

D. Scarano, P. Galletto, C. Lamberti, R. De Franceschi and A. Zecchina, Morphology and CO adsorptive properties of CuCl polycrystalline films: a SEM and FTIR study 387 (1997) 236